

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
 Data File : BF136559.D
 Acq On : 14 Dec 2023 02:35
 Operator : CG\JU
 Sample : 05767-07
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-E3-COMP

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/14/2023
 Supervised By :mohammad ahmed 12/14/2023

Quant Time: Dec 14 03:52:21 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 09:40:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	80298	20.000	ng	-0.01
21) Naphthalene-d8	8.069	136	282679	20.000	ng	-0.01
39) Acenaphthene-d10	9.828	164	125570	20.000	ng	-0.01
64) Phenanthrene-d10	11.322	188	210757	20.000	ng	0.00
76) Chrysene-d12	13.974	240	173296	20.000	ng	0.00
86) Perylene-d12	15.457	264	132492	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	407659	74.976	ng	0.00
7) Phenol-d6	6.434	99	482397	71.111	ng	-0.01
23) Nitrobenzene-d5	7.351	82	282126	53.955	ng	-0.02
42) 2,4,6-Tribromophenol	10.622	330	104673	67.606	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	521398	56.657	ng	-0.01
79) Terphenyl-d14	12.916	244	499827	38.016	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.345	178	157582	13.603	ng	98
72) Anthracene	11.392	178	46679	4.001	ng	97
75) Fluoranthene	12.539	202	332037	27.352	ng	98
78) Pyrene	12.769	202	304367	17.934	ng	96
81) Benzo(a)anthracene	13.963	228	184391	15.275	ng	97
83) Chrysene	13.998	228	153195	12.899	ng	97
87) Indeno(1,2,3-cd)pyrene	16.956	276	66718	7.248	ng	98
88) Benzo(b)fluoranthene	15.021	252	179614m	19.828	ng	
89) Benzo(k)fluoranthene	15.045	252	55672m	6.521	ng	
90) Benzo(a)pyrene	15.392	252	113693	15.197	ng	97
91) Dibenzo(a,h)anthracene	16.962	278	17747	2.353	ng	# 89
92) Benzo(g,h,i)perylene	17.409	276	65214	8.426	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

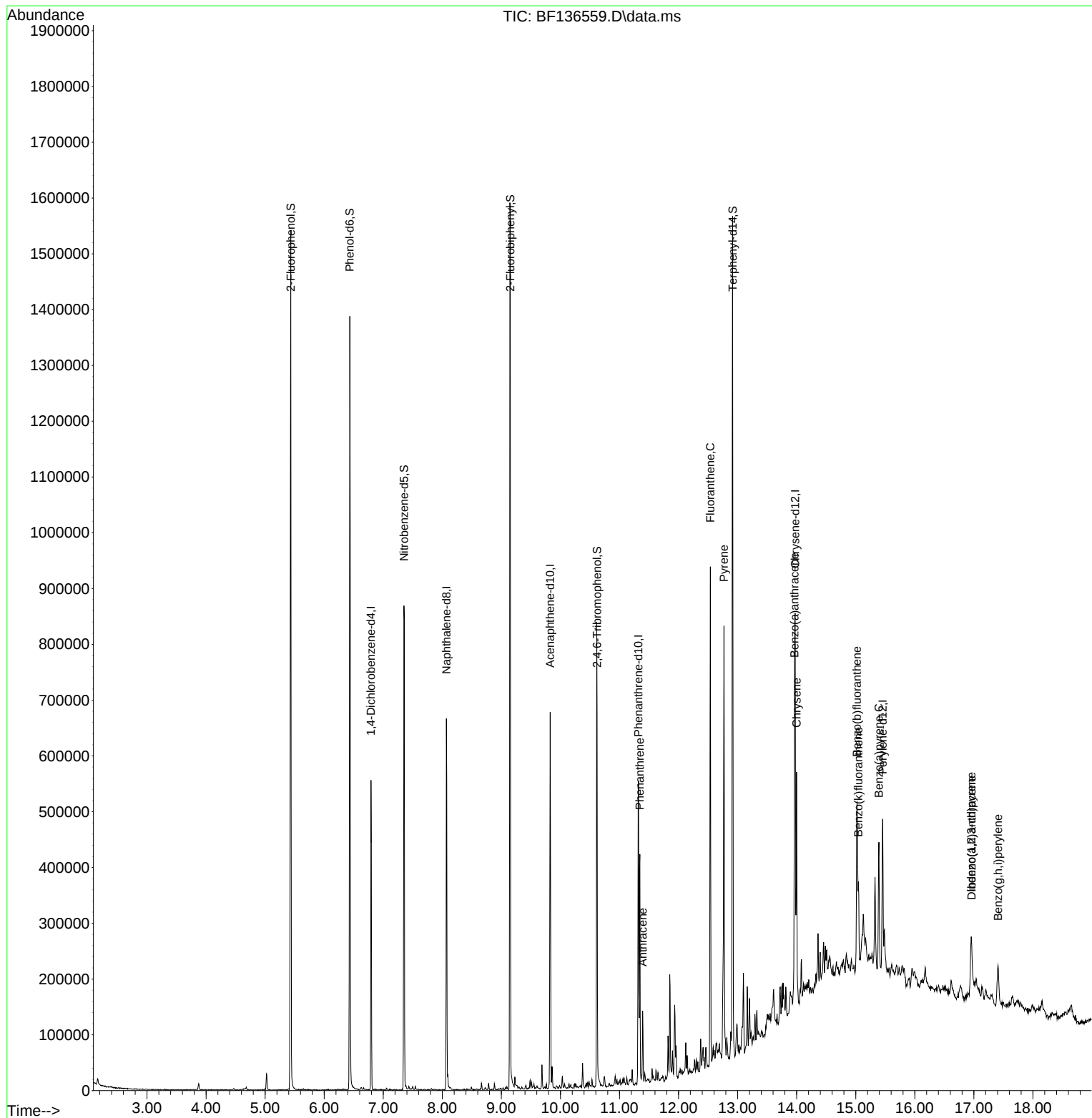
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
Data File : BF136559.D
Acq On : 14 Dec 2023 02:35
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Sample : 05767-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

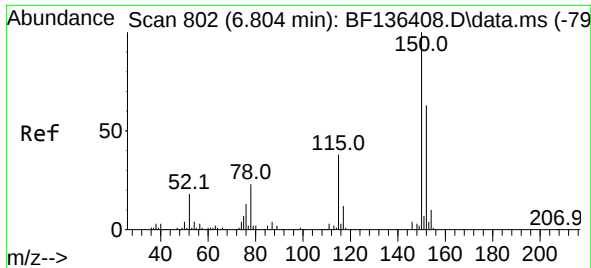
Instrument :
BNA_F
ClientSampleId :
SP-E3-COMP

Quant Time: Dec 14 03:52:21 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
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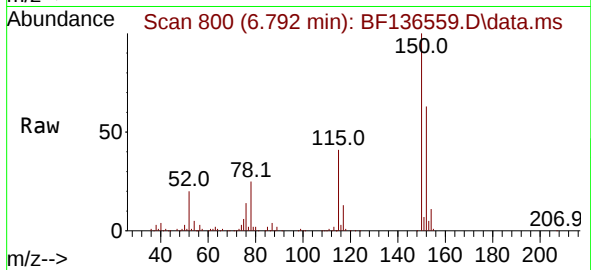
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 802
Delta R.T. -0.012 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

ClientSampleId :

SP-E3-COMP

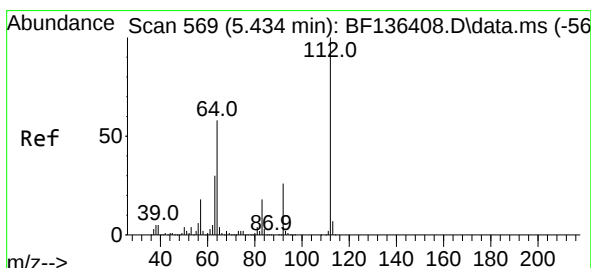
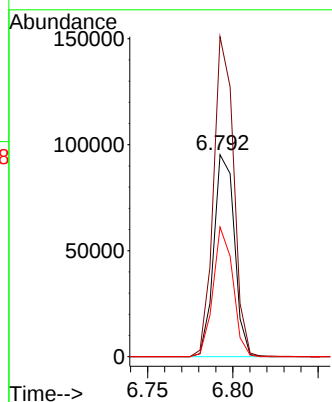
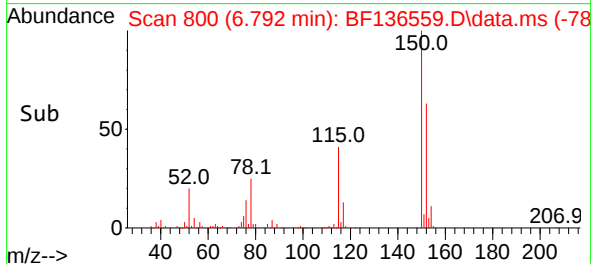


Tgt Ion:152 Resp: 80298
Ion Ratio Lower Upper
152 100
150 158.4 126.4 189.6
115 64.2 48.2 72.4

Manual Integrations

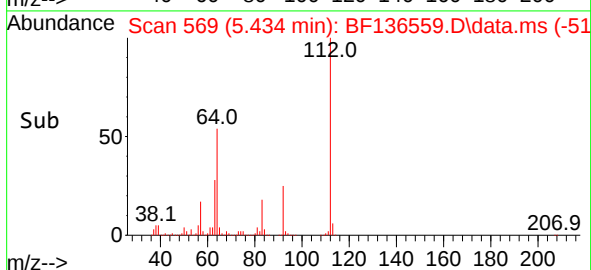
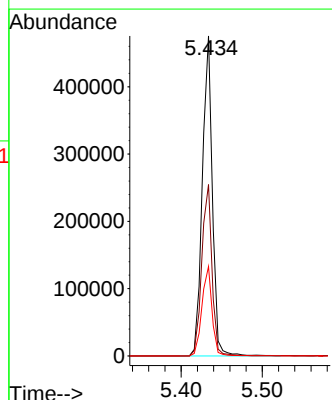
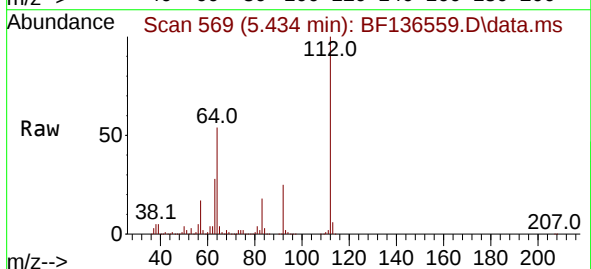
APPROVED

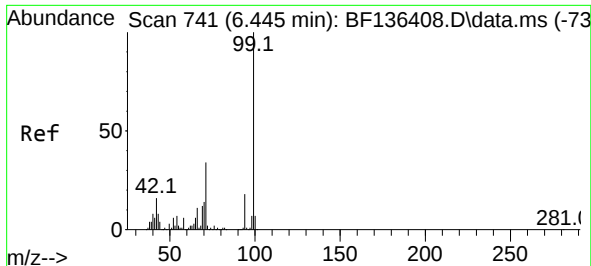
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#5
2-Fluorophenol
Concen: 74.976 ng
RT: 5.434 min Scan# 569
Delta R.T. -0.000 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

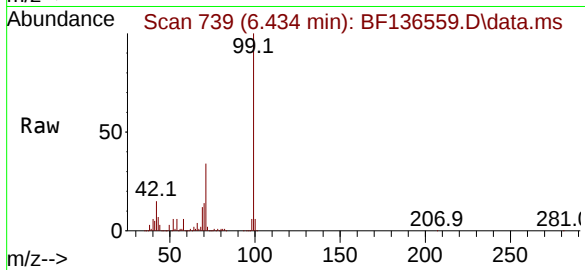
Tgt Ion:112 Resp: 407659
Ion Ratio Lower Upper
112 100
64 53.5 46.5 69.7
63 27.9 23.9 35.9





#7
Phenol-d6
Concen: 71.111 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

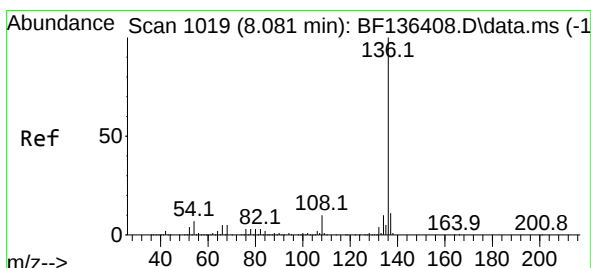
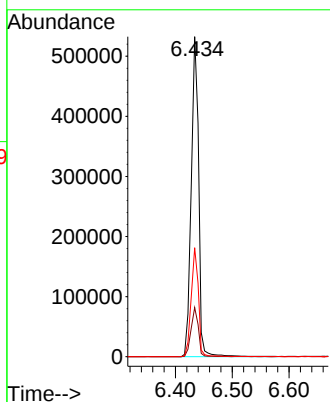
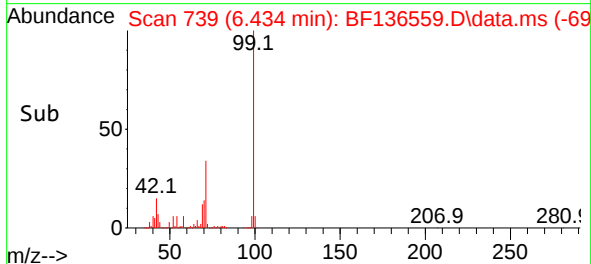
Instrument :
BNA_F
ClientSampleId :
SP-E3-COMP



Tgt Ion: 99 Resp: 48239
Ion Ratio Lower Upper
99 100
42 15.4 12.8 19.2
71 34.0 27.0 40.4

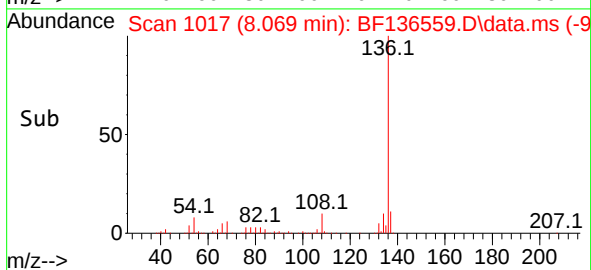
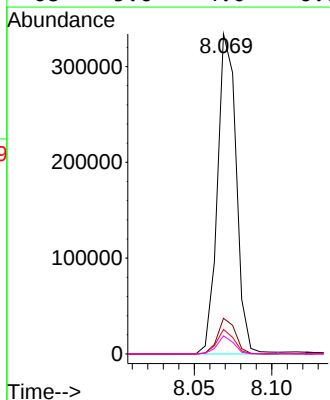
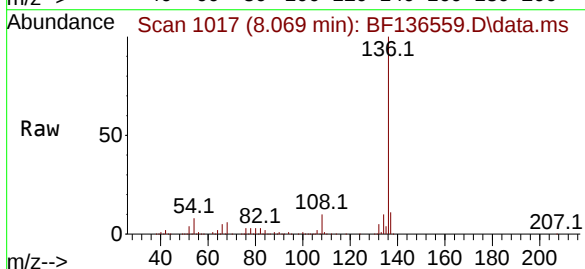
Manual Integrations
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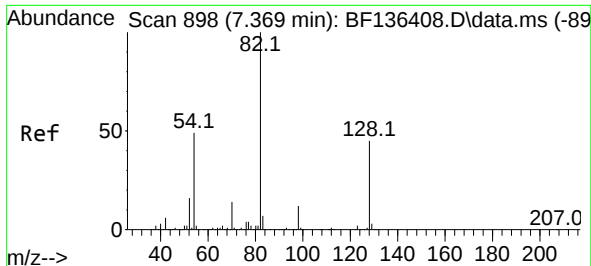
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Tgt Ion:136 Resp: 282679
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 7.7 5.7 8.5
68 5.6 4.0 6.0





#23

Nitrobenzene-d5

Concen: 53.955 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF136559.D

Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

ClientSampleId :

SP-E3-COMP

Tgt Ion: 82 Resp: 282120

Ion Ratio Lower Upper

82 100

128 44.0 36.3 54.5

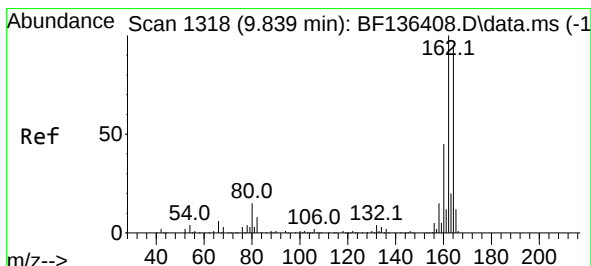
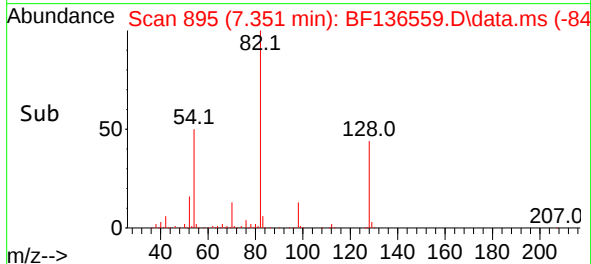
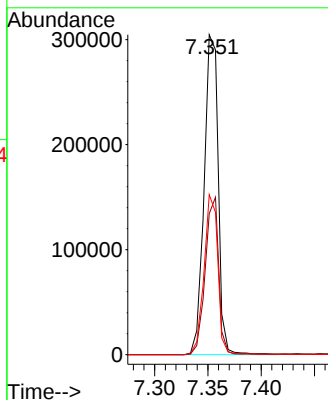
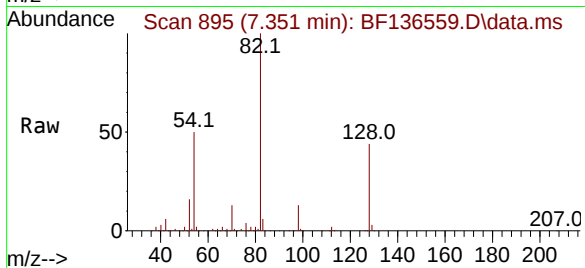
54 50.0 39.0 58.6

Manual Integrations

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Reviewed By :Yogesh Patel 12/14/2023

Supervised By :mohammad ahmed 12/14/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF136559.D

Acq: 14 Dec 2023 02:35

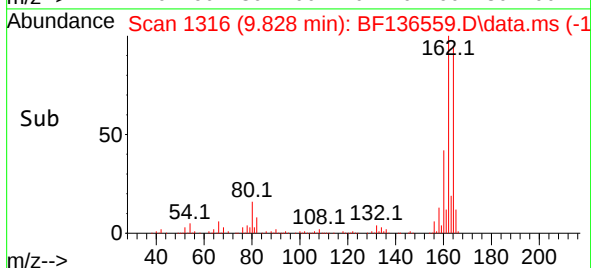
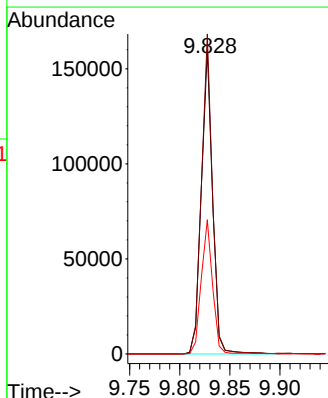
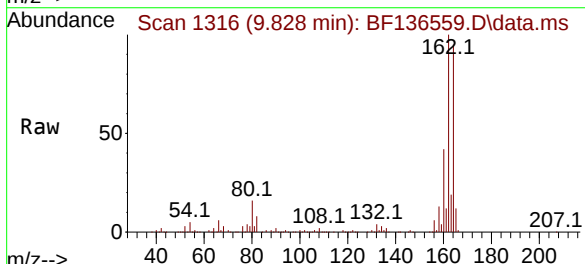
Tgt Ion:164 Resp: 125570

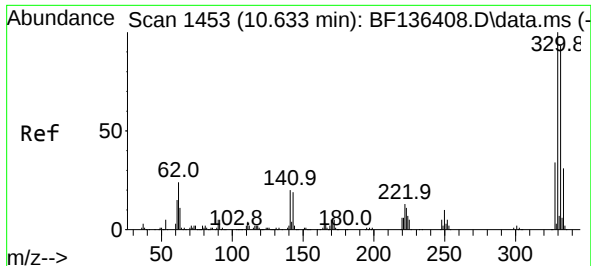
Ion Ratio Lower Upper

164 100

162 105.2 84.4 126.6

160 44.1 37.6 56.4





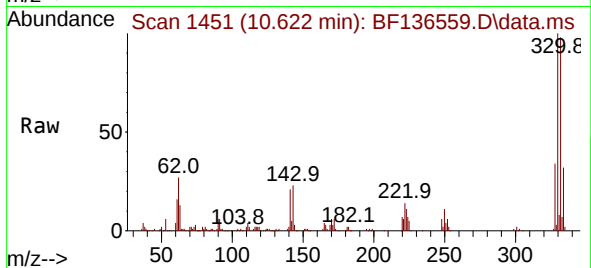
#42
2,4,6-Tribromophenol
Concen: 67.606 ng
RT: 10.622 min Scan# 1453
Delta R.T. -0.012 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

ClientSampleId :

SP-E3-COMP



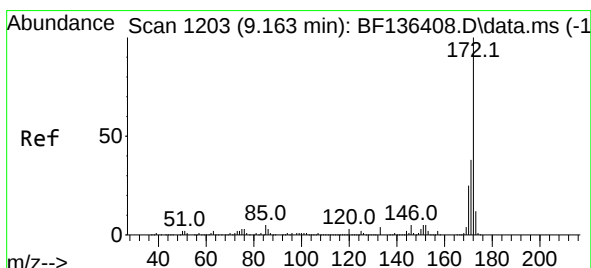
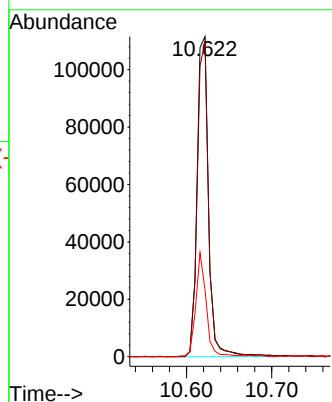
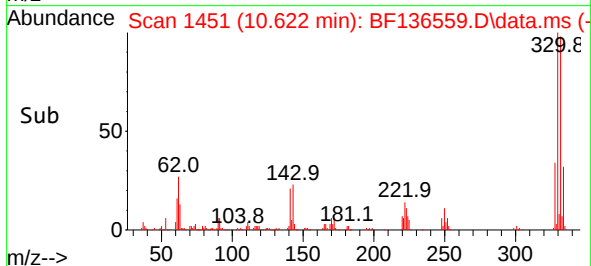
Tgt Ion:330 Resp: 104673
Ion Ratio Lower Upper
330 100
332 96.1 76.4 114.6
141 29.4 23.4 35.2

Manual Integrations

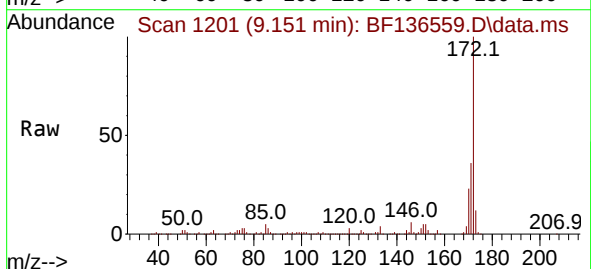
APPROVED

Reviewed By :Yogesh Patel 12/14/2023

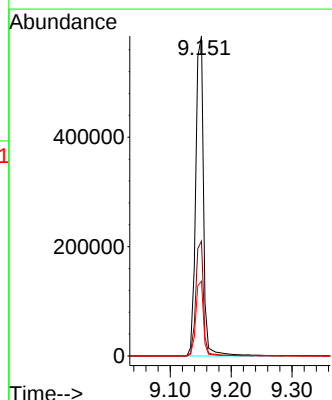
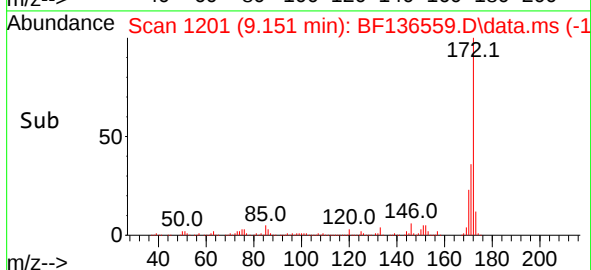
Supervised By :mohammad ahmed 12/14/2023

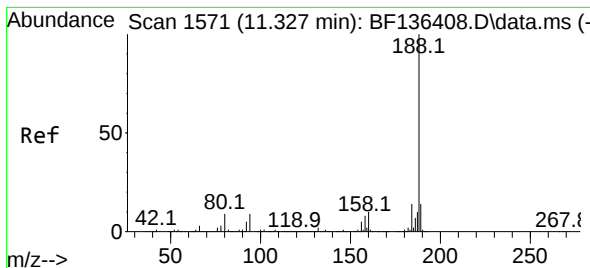


#45
2-Fluorobiphenyl
Concen: 56.657 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35



Tgt Ion:172 Resp: 521398
Ion Ratio Lower Upper
172 100
171 35.9 30.5 45.7
170 23.4 19.9 29.9





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

ClientSampleId :

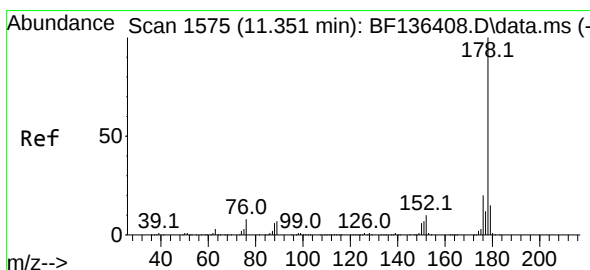
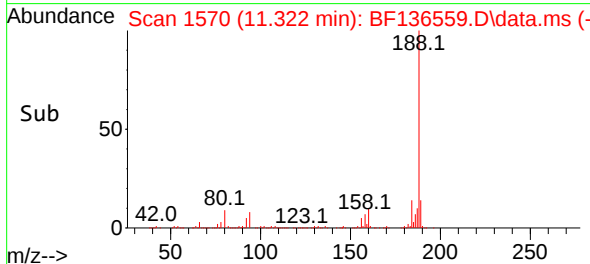
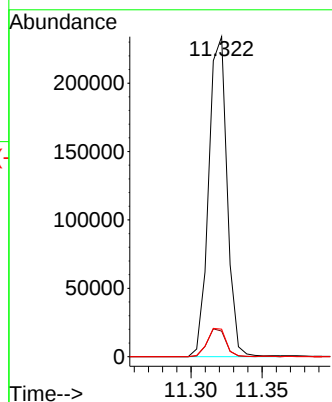
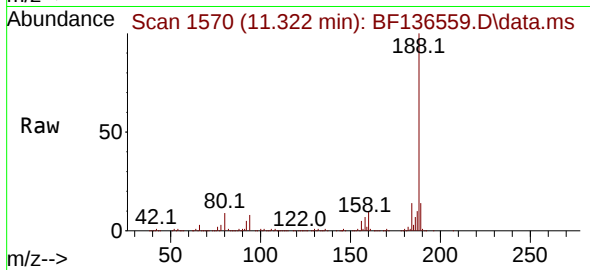
SP-E3-COMP

Tgt Ion:188 Resp: 21075
Ion Ratio Lower Upper
188 100
94 8.0 7.2 10.8
80 8.6 7.2 10.8

Manual Integrations

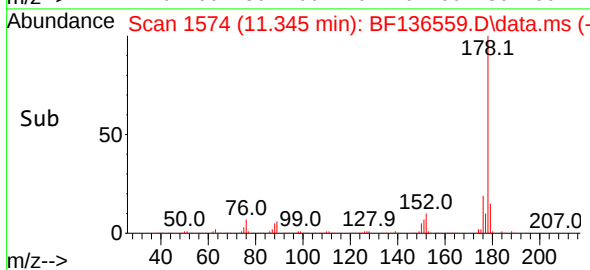
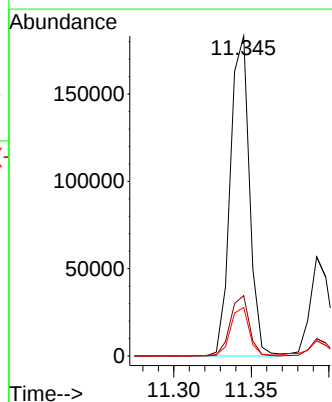
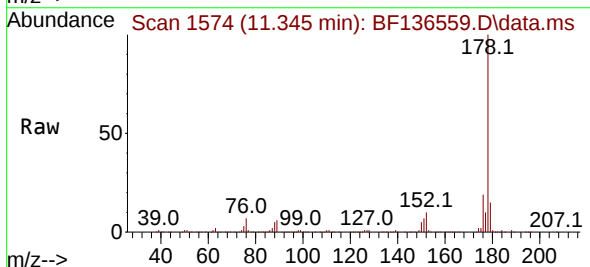
APPROVED

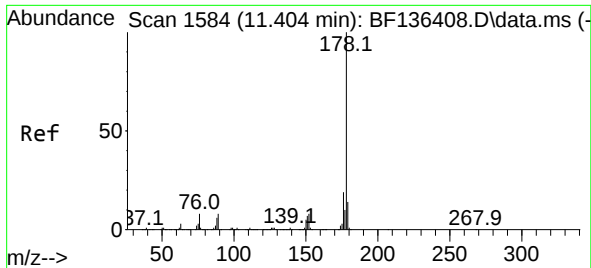
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#71
Phenanthrene
Concen: 13.603 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Tgt Ion:178 Resp: 157582
Ion Ratio Lower Upper
178 100
176 18.8 15.9 23.9
179 15.2 11.8 17.6





#72
 Anthracene
 Concen: 4.001 ng
 RT: 11.392 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF136559.D
 Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

ClientSampleId :

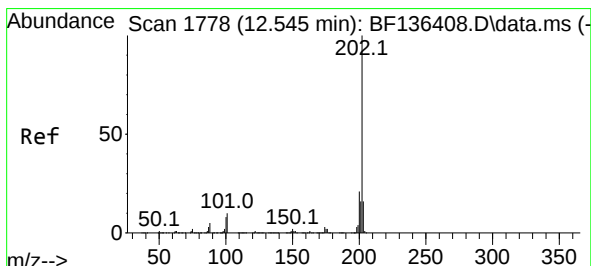
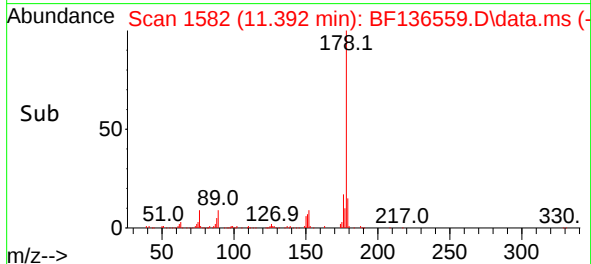
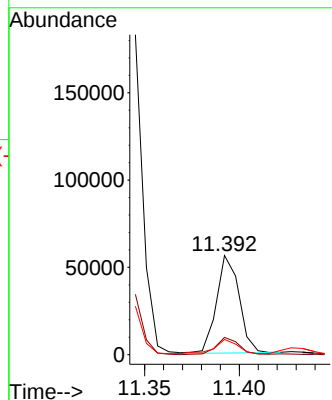
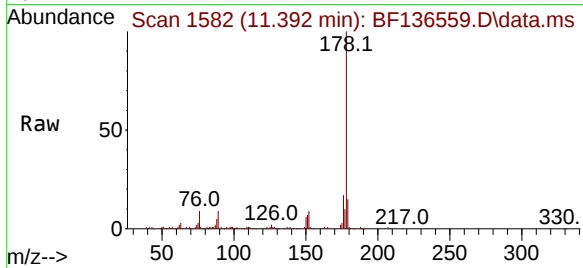
SP-E3-COMP

Tgt Ion:178 Resp: 46679
 Ion Ratio Lower Upper
 178 100
 176 17.4 15.3 22.9
 179 15.3 11.4 17.0

Manual Integrations

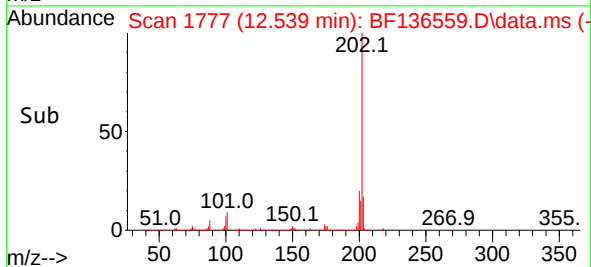
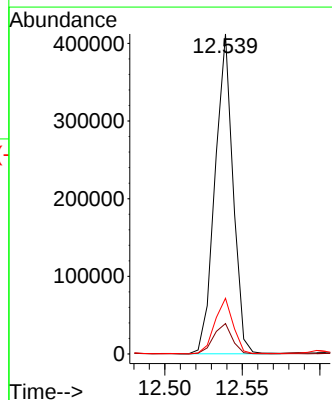
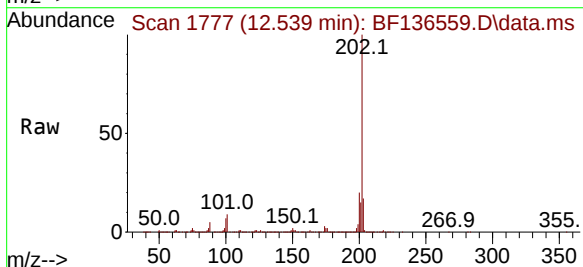
APPROVED

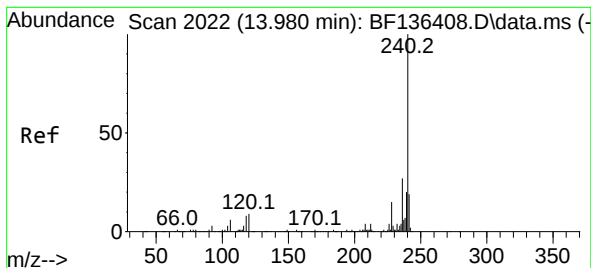
Reviewed By :Yogesh Patel 12/14/2023
 Supervised By :mohammad ahmed 12/14/2023



#75
 Fluoranthene
 Concen: 27.352 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. -0.006 min
 Lab File: BF136559.D
 Acq: 14 Dec 2023 02:35

Tgt Ion:202 Resp: 332037
 Ion Ratio Lower Upper
 202 100
 101 9.5 0.0 29.9
 203 17.4 0.0 36.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 2022

Delta R.T. -0.006 min

Lab File: BF136559.D

Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

ClientSampleId :

SP-E3-COMP

Tgt Ion:240 Resp: 173290

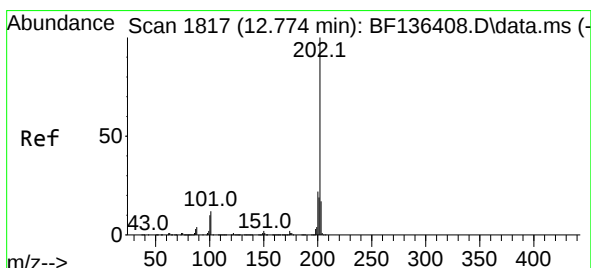
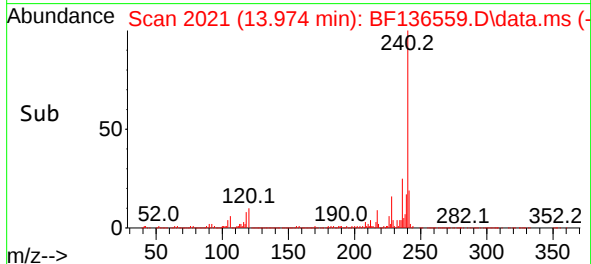
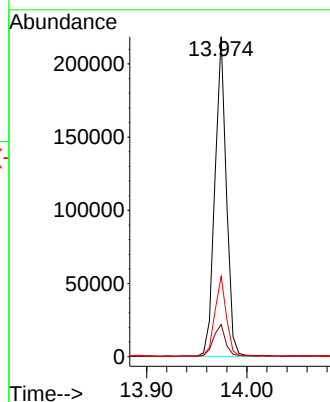
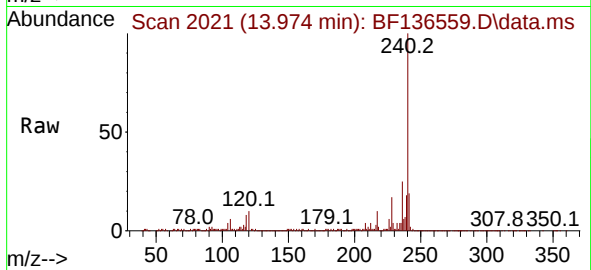
Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.3	10.9
236	25.1	21.3	31.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/14/2023

Supervised By :mohammad ahmed 12/14/2023



#78

Pyrene

Concen: 17.934 ng

RT: 12.769 min Scan# 1816

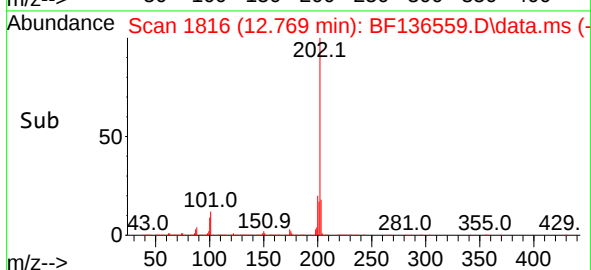
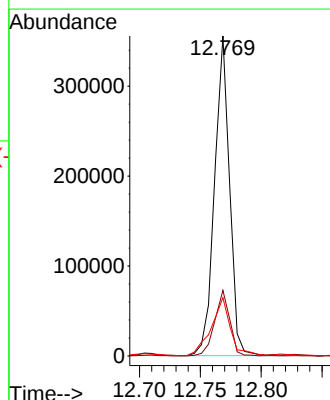
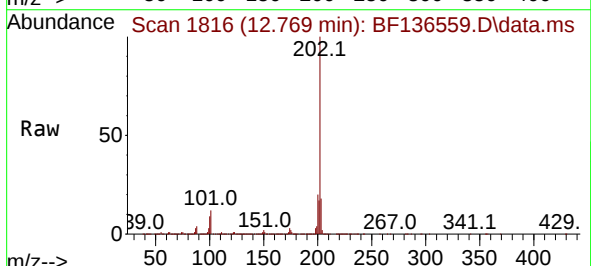
Delta R.T. -0.006 min

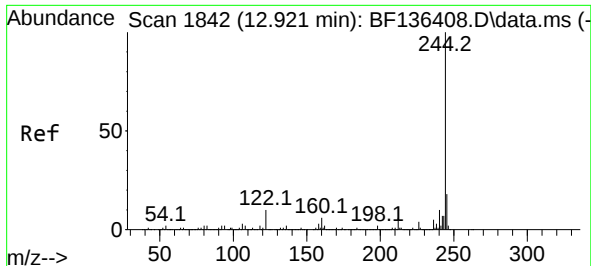
Lab File: BF136559.D

Acq: 14 Dec 2023 02:35

Tgt Ion:202 Resp: 304367

Ion	Ratio	Lower	Upper
202	100		
200	20.5	18.0	27.0
203	18.2	13.5	20.3





#79
Terphenyl-d14
Concen: 38.016 ng
RT: 12.916 min Scan# 1842
Delta R.T. -0.006 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

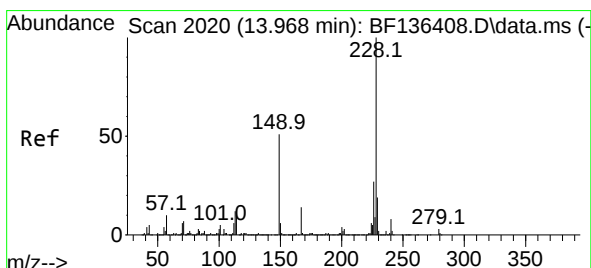
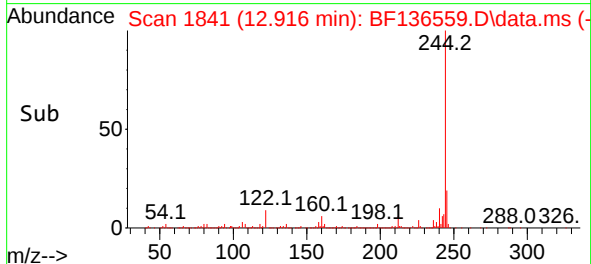
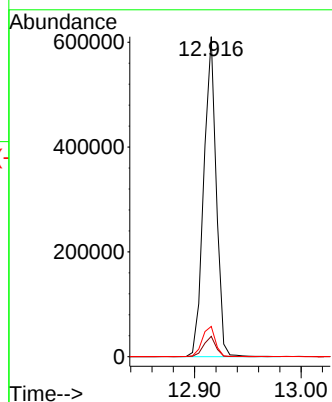
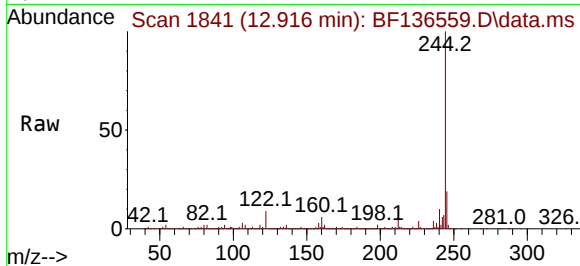
ClientSampleId :

SP-E3-COMP

Tgt Ion:244 Resp: 49982
Ion Ratio Lower Upper
244 100
212 6.3 5.0 7.4
122 9.5 8.3 12.5

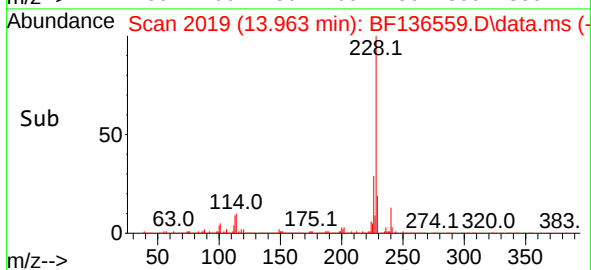
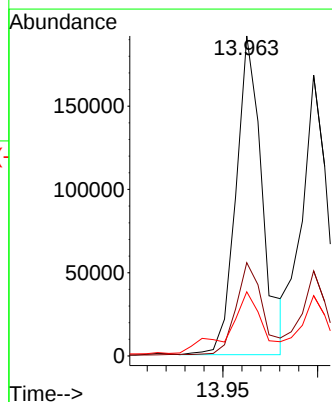
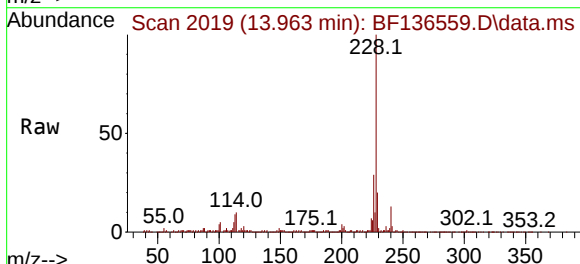
Manual Integrations
APPROVED

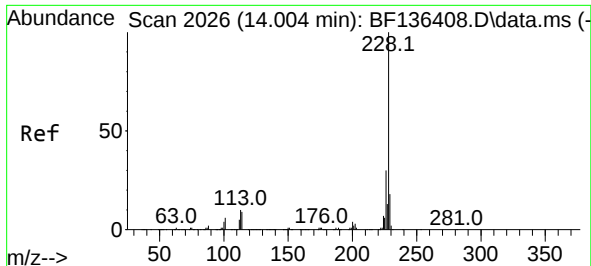
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#81
Benzo(a)anthracene
Concen: 15.275 ng
RT: 13.963 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Tgt Ion:228 Resp: 184391
Ion Ratio Lower Upper
228 100
226 29.2 21.8 32.8
229 20.1 15.0 22.4





#83
Chrysene
Concen: 12.899 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.006 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

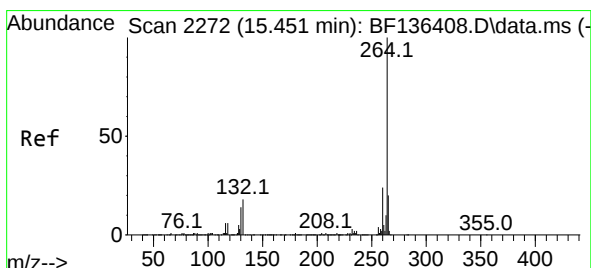
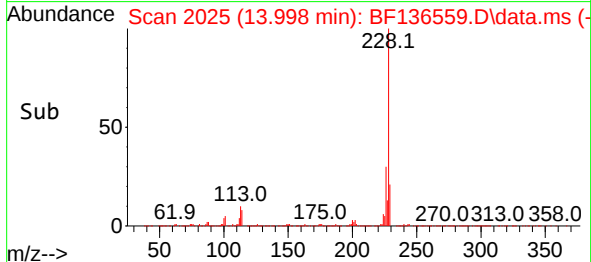
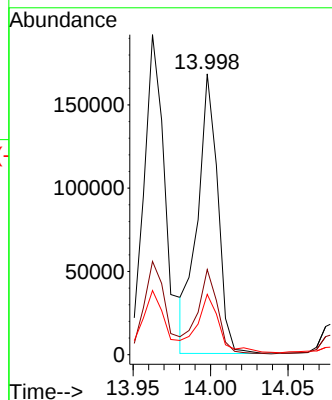
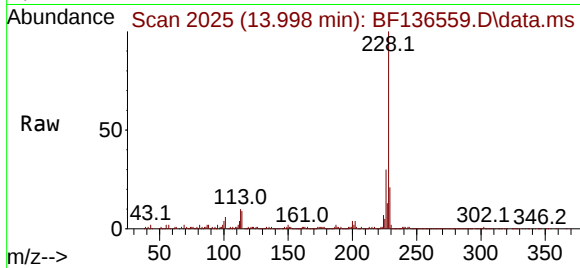
ClientSampleId :

SP-E3-COMP

Tgt Ion:228 Resp: 15319
Ion Ratio Lower Upper
228 100
226 30.3 23.8 35.6
229 21.5 14.8 22.2

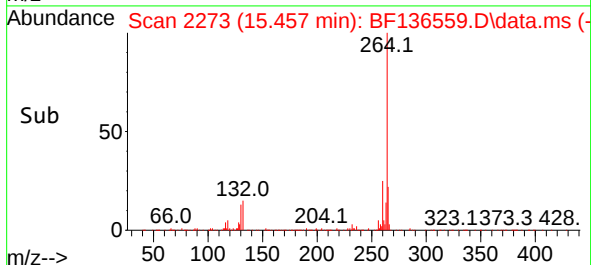
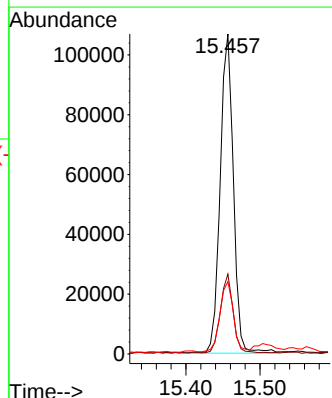
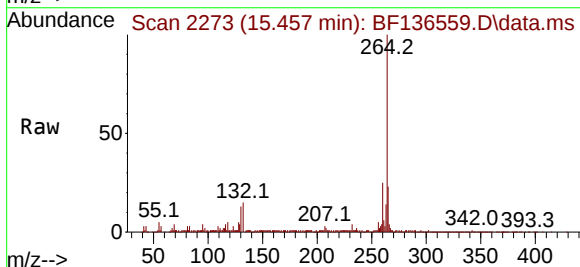
Manual Integrations
APPROVED

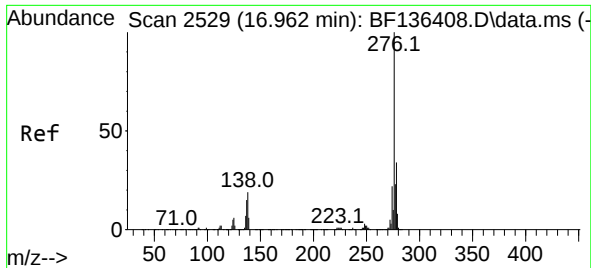
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.457 min Scan# 2273
Delta R.T. 0.006 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Tgt Ion:264 Resp: 132492
Ion Ratio Lower Upper
264 100
260 24.9 19.2 28.8
265 22.6 15.9 23.9





#87
Indeno(1,2,3-cd)pyrene
Concen: 7.248 ng
RT: 16.956 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

ClientSampleId :

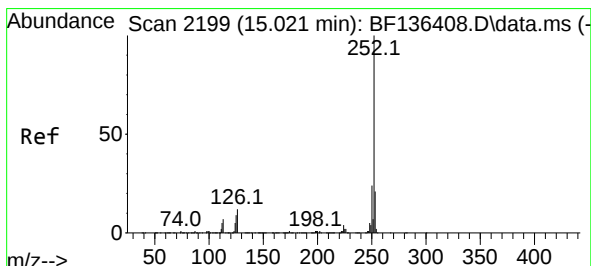
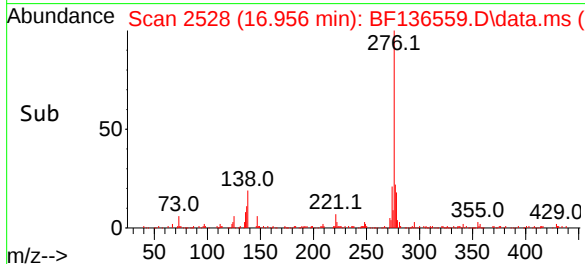
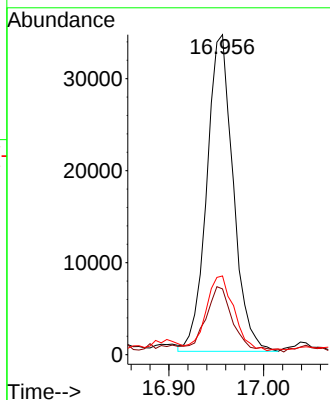
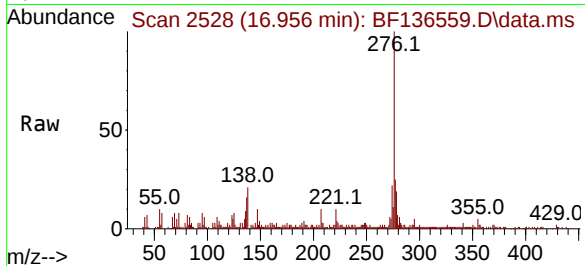
SP-E3-COMP

Tgt Ion:276 Resp: 66718
Ion Ratio Lower Upper
276 100
138 21.5 19.0 28.4
277 24.8 20.0 30.0

Manual Integrations

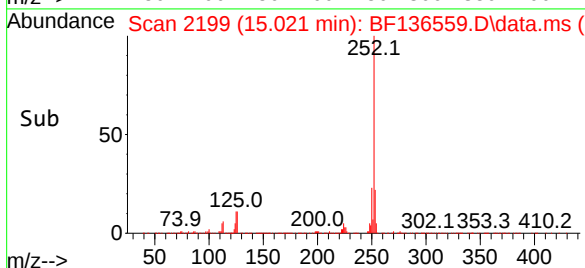
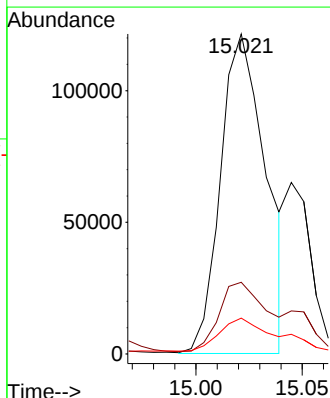
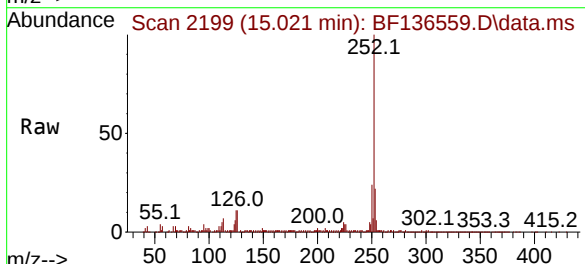
APPROVED

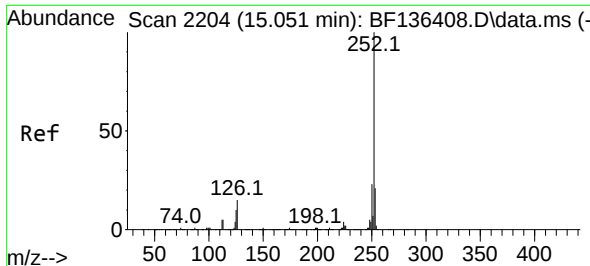
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#88
Benzo(b)fluoranthene
Concen: 19.828 ng m
RT: 15.021 min Scan# 2199
Delta R.T. -0.000 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Tgt Ion:252 Resp: 179614
Ion Ratio Lower Upper
252 100
253 22.4 16.9 25.3
125 11.2 7.4 11.2#





#89
Benzo(k)fluoranthene
Concen: 6.521 ng m
RT: 15.045 min Scan# 2204
Delta R.T. -0.006 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

ClientSampleId :

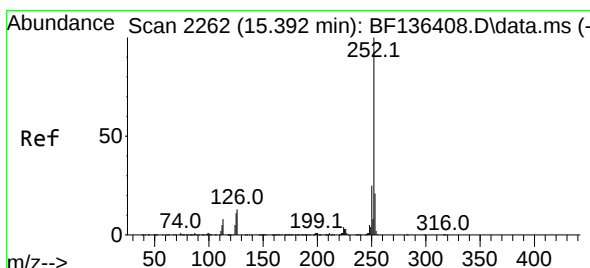
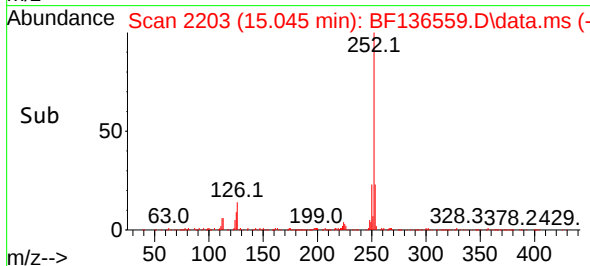
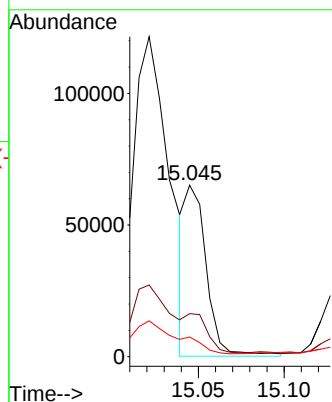
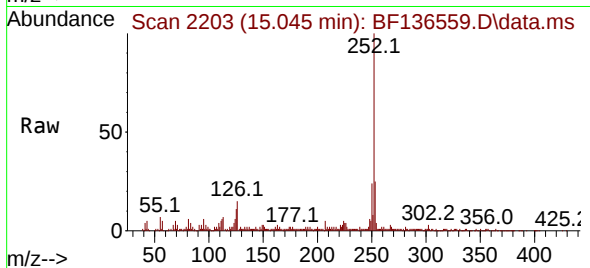
SP-E3-COMP

Tgt Ion:252 Resp: 55672
Ion Ratio Lower Upper
252 100
253 25.1 16.9 25.3
125 11.5 7.5 11.3

Manual Integrations

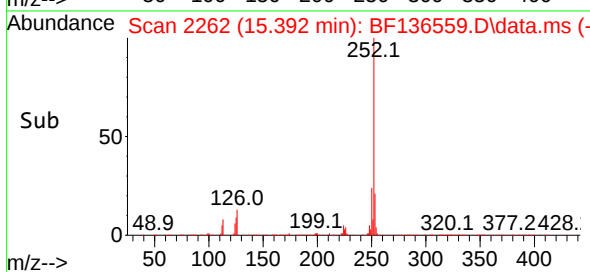
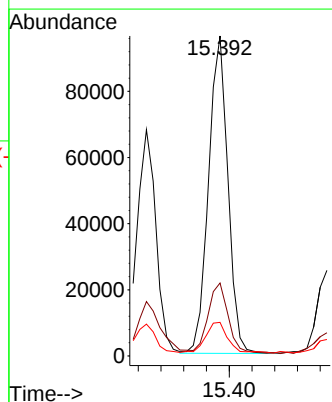
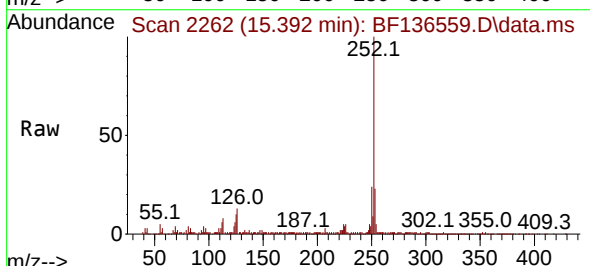
APPROVED

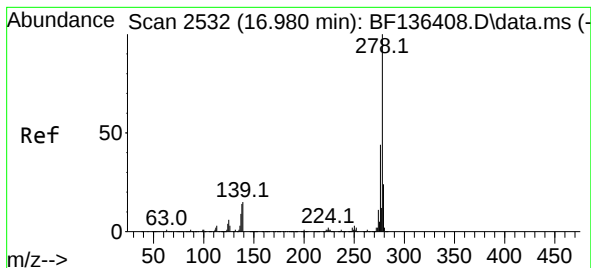
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#90
Benzo(a)pyrene
Concen: 15.197 ng
RT: 15.392 min Scan# 2262
Delta R.T. -0.000 min
Lab File: BF136559.D
Acq: 14 Dec 2023 02:35

Tgt Ion:252 Resp: 113693
Ion Ratio Lower Upper
252 100
253 22.8 17.0 25.4
125 10.5 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 2.353 ng

RT: 16.962 min Scan# 2529

Delta R.T. -0.018 min

Lab File: BF136559.D

Acq: 14 Dec 2023 02:35

Instrument :

BNA_F

ClientSampleId :

SP-E3-COMP

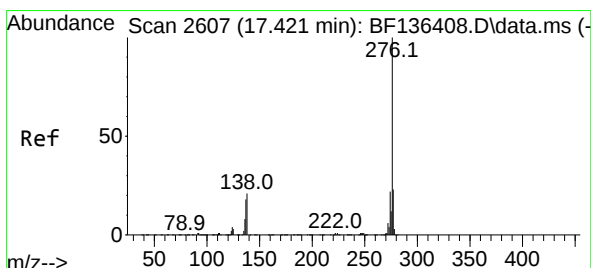
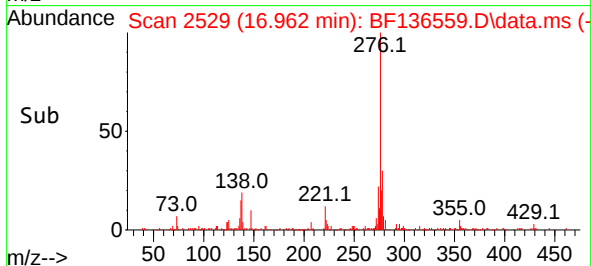
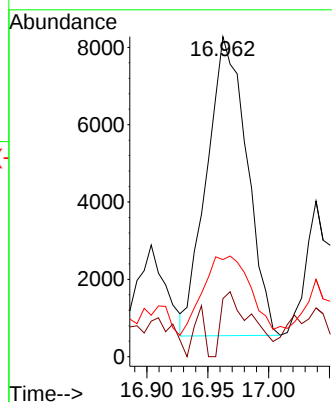
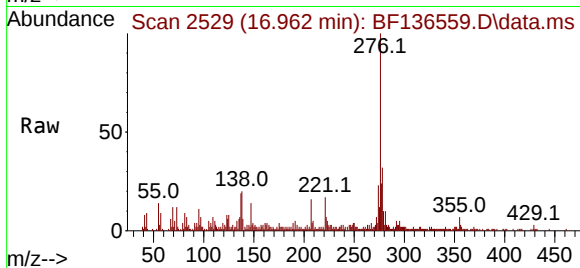
Tgt Ion:	278	Resp:	1774
Ion Ratio	Lower	Upper	
278	100		
139	18.1	12.2	18.4
279	30.4	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/14/2023

Supervised By :mohammad ahmed 12/14/2023



#92

Benzo(g,h,i)perylene

Concen: 8.426 ng

RT: 17.409 min Scan# 2605

Delta R.T. -0.012 min

Lab File: BF136559.D

Acq: 14 Dec 2023 02:35

Tgt Ion:	276	Resp:	65214
Ion Ratio	Lower	Upper	
276	100		
277	25.5	18.7	28.1
138	20.7	16.6	25.0

